



# PELLET STOVE WINDSOR

# OWNER'S MANUAL



Contact your building or fire officials about restrictions and installation inspection requirements in your area.



PLEASE READ THIS ENTIRE MANUAL BEFORE INSTALLATION AND USE OF THIS PELLET-BURNING ROOM HEATER. FAILURE TO FOLLOW THESE INSTRUCTIONS COULD RESULT IN PROPERTY DAMAGE, BODILY INJURY OR EVEN DEATH.

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# INTRODUCTION

### Pellet Quality:

Pellet quality is important, please read the following:

Your enviro pellet stove has been designed to burn wood pellets only. Do not use any other type of fuel, as this will void any warranties stated in this manual.

The performance of your pellet stove is greatly affected by the type and quality of wood pellets being burned. As the heat output of various quality wood pellets differs, so will the performance and heat output of the pellet stove.

**CAUTION:** It is important to select and use only pellets that are dry and free of dirt or any impurities such as high salt content. Dirty fuel will adversely affect the operation and performance of the unit and will void the warranty. The Pellet Fuel Industries (P.F.I.) has established standards for wood pellet manufacturers. We recommend the use of pellets that meet or exceed these standards. Ask your dealer for a recommended pellet type.

### **P.F.I. PELLET STANDARDS:**

Fines (fine particles)	1% maximum through a 1/8" screen
	40 pound per cubic foot minimum
Size	$\frac{1}{4}$ " to $\frac{5}{16}$ " diameter $\frac{1}{2} - \frac{1}{2}$ " long maximum
Ash Content	1% maximum (Premium grade)
	3% maximum (Standard grade)
Moisture Content	8% maximum
Heat Content	approximately 8200 Btu per pound minimum

**ASH**: The ash content of the fuel and operation of your stove will directly determine the frequency of cleaning. The use of high ash fuels may result in the stove needing to be cleaned daily. A low ash fuel may allow longer intervals between cleaning.

**CLINKERING:** [clinkers are silica (sand) or other impurities in the fuel that will form a hard mass during the burning process]. This hard mass will block the air flow through the Burn Pot Liner and affect the performance of the stove. Any fuel, even approved types, may tend to clinker. Check the Burn-Pot Liner daily to ensure that the holes are not blocked with clinkers. If they become blocked, remove the liner (when the unit is cold) and clean/scrape the clinkers out. Clean the holes with a small pointed object if required. Refer to the section Routine Cleaning and Maintenance.

**PELLET FEED RATES:** Due to different fuel densities and sizes, pellet feed rates may vary. This may require an adjustment to the slider damper setting or to the auger feed trim setting on low.

Since Sherwood Industries Ltd. has no control over the quality of pellets that you use, we assume no liability for your choice in wood pellets.

Store pellets at least 36" (1 m) away from the pellet stove.

### RATING LABEL LOCATION:

The rating label is located on the back of the hopper.

### INTRODUCTION

### **IMPORTANT SAFETY DATA:**

Please read this entire Owner's Manual before installing or operating your ENVIRO Pellet Stove. Failure to follow these instructions may result in property damage, bodily injury or even death. Contact your local building or fire official to obtain a permit and any information on installation restrictions and inspection requirements for your area.

To prevent the possibility of a fire, ensure that the appliance is properly installed by adhering to the installation instructions. An ENVIRO dealer will be happy to assist you in obtaining information with regards to your local building codes and installation restrictions.

Be sure to maintain the structural integrity of the home when passing a vent through walls, ceilings, or roofs.

The stove's exhaust system works with negative combustion chamber pressure and a slightly positive chimney pressure. It is very important to ensure that the exhaust system be sealed and airtight. The ash pan and viewing door must be locked securely for proper and safe operation of the pellet stove.

Do not burn with insufficient combustion air. A periodic check is recommended to ensure proper combustion air is admitted to the combustion chamber. Setting the proper combustion air is achieved by adjusting the slider damper located on the left side of the stove.

When installing the stove in a mobile home, it must be electrically grounded to the steel chassis of the home and bolted to the floor in accordance with applicable local, state or federal codes. Make sure that the structural integrity of the home is maintained and all construction meets local building codes.

Minor soot or creosote may accumulate when the stove is operated under incorrect conditions such as an extremely rich burn (black tipped, lazy orange flames).

If you have any questions with regard to your stove or the above-mentioned information, please feel free to contact your local dealer for further clarification and comments.

### SAFETY WARNINGS AND RECOMMENDATIONS:

Caution: Do not connect to any air distribution duct or system.

Do not burn garbage or flammable fluids such as gasoline, naptha or engine oil. Unit hot while in operation. Keep children, clothing and furniture away. Contact may cause skin burns.

**FUEL**: This pellet stove is designed and approved to only burn wood pellet fuel with up to 3% ash content. Dirty fuel will adversely affect the operation and performance of the unit and may void the warranty. Check with your dealer for fuel recommendations.

### THE USE OF CORDWOOD IS PROHIBITED BY LAW.

**SOOT:** Operation of the stove with insufficient combustion air will result in the formation of soot which will collect on the glass, the heat exchanger, the exhaust vent system, and may stain the outside of the house. This is a dangerous situation and is inefficient. Frequently check your stove and adjust the slider/damper as needed to ensure proper combustion. **See: Installation - Slider/Damper Setting.** 

**CLEANING:** There will be some build up of fly ash and small amounts of creosote in the exhaust. This will vary due to the ash content of the fuel used and the operation of the stove. It is advisable to inspect and clean the exhaust vent semi-annually or every two tons of pellets.

# INTRODUCTION

**ASHES:** Disposed ashes should be placed in a metal container with a tight fitting lid. The closed container of ashes should be on a non-combustible floor on the ground, well away from all combustible materials pending final disposal. If the ashes are disposed of by burial in soil or otherwise locally dispensed, they should be retained in the closed container until all cinders have been thoroughly cooled.

**ELECTRICAL:** The use of a surge protected power bar is recommended. The unit must be grounded. The grounded electrical cord should be connected to a standard 115 volts (3.1 Amps), 60 hertz electrical outlet. Be careful that the electrical cord is not trapped under the appliance and that it is clear of any hot surfaces or sharp edges and also must be accessible. If this power cord should become damaged, a replacement power cord must be purchased from the manufacture or a qualified ENVIRO dealer. This unit's maximum power requirement is 675 watts.

**GLASS:** Do not abuse the glass by striking or slamming the door. Do not attempt to operate the stove with broken glass. The stove uses ceramic glass. Replacement glass must be purchased from an ENVIRO dealer. Do not attempt to open the door and clean the glass while the unit is in operation or if glass is hot. To clean the glass, use a soft cotton cloth and mild window cleaner, gas or wood stove glass cleaner, or take a damp paper towel and dip into the fly ash. This is a very mild abrasive and will not damage the glass.

**FLAMMABLE LIQUIDS: Never** use gasoline, gasoline-type lantern fuel, kerosene, charcoal lighter fluid, or similar liquids to start or "freshen up" a fire in the heater. Keep all such liquids well away from the heater while it is in use.

**SMOKE DETECTOR:** Smoke detectors should be installed and maintained in the structure when installing and operating a pellet burning appliance.

**OPERATION:** The ash pan and door must be closed securely for proper and safe operation of the pellet stove. Also ensure all gaskets on the door are checked and replaced when necessary.

### **KEEP ASH PAN FREE OF RAW FUEL.**

DO NOT PLACE UNBURNED OR NEW PELLET FUEL IN ASH PAN. A fire in the ash pan may occur.

**INSTALLATION:** Be sure to maintain the structural integrity of your home when passing a vent through walls, ceilings, or roofs. It is recommended that the unit be secured into its position in order to avoid any displacement.

DO NOT INSTALL A FLUE DAMPER IN THE EXHAUST VENTING SYSTEM OF THIS UNIT.

DO NOT CONNECT THIS UNIT TO A CHIMNEY FLUE SERVING ANOTHER APPLIANCE.

**FRESH AIR:** Outside Fresh Air connection is optional. Must be connected to all units installed in Mobile and "Air Tight Homes" (R2000) or where required by local codes. Consider all large air moving devices when installing your unit and provide room air accordingly. Limited air for combustion may result in poor performance, smoking and other side effects of poor combustion.

If you have any questions with regards to your stove or the above-mentioned information, please feel free to contact your local dealer for further clarification and comments.

SINCE SHERWOOD INDUSTRIES LTD. HAS NO CONTROL OVER THE INSTALLATION OF YOUR STOVE, SHERWOOD INDUSTRIES LTD. GRANTS NO WARRANTY IMPLIED OR STATED FOR THE INSTALLATION OR MAINTENANCE OF YOUR STOVE. THEREFORE, SHERWOOD INDUSTRIES LTD. ASSUMES NO RESPONSIBILITY FOR ANY CONSEQUENTIAL DAMAGE(S).

SAVE THIS INSTRUCTION MANUAL FOR FUTURE REFERENCE

# OPERATING INSTRUCTIONS

### **AUTOMATIC SAFETY FEATURES:**

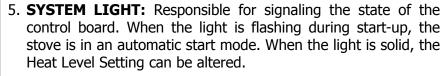
Your pellet Stove has the following safety features:

- A) The stove will shut off when the fire goes out and the exhaust temperature drops below 120 °F (49°C).
- B) The stove has a high temperature safety switch. If the temperature on the hopper reaches 200 °F (93 °C) the auger will automatically stop, and the stove will shut off when the exhaust temperature cools. If this happens call your local dealer to reset the 200 °F (93 °C) high limit switch. FIND THE REASONS WHY THE UNIT OVERHEATED.
- C) This unit has a convection fan control over-ride. This function causes the convection fan to reach its full speed when the temperature at the back of the firebox reaches 160 °F (71 °C). This is a normal safety feature of your unit.
- D) The unit is equipped with a vacuum switch to monitor the venting; if it becomes blocked the vacuum switch will turn off the auger and the #2 light on the control board will flash.

### **CONTROL BOARD FUNCTIONS:**

- 1. AUGER TRIM: Used to change feed rates on LOW ONLY for poorer quality fuels. Push the Auger Trim button until the number 1 and 5 lights appear on the Heat Level Indicator. This will increase the feed rate to four (4) seconds ON time Auger pulse. This is done only on LOW to allow the burning of poor quality fuels. Push the button until the number 1 and 4 lights appear, this will reduce the Auger On time to two (2) second. This setting is for high-grade fuel only. Push the button until just the number 1 light is on, this is for a three (3) second on time (standard setting).
- 2. **CONVECTION BLOWER CONTROL:** Used to turn the convection blower ON/OFF. If the Blower is left off, and the sensor located on the air jacket reaches 160 °F (71 °C), the Convection blower will automatically come on HI speed to cool the unit. Leave the convection blower ON for peak efficiency
- 3. **AUGER PULSE LIGHT:** This light will flash in conjunction with the auger.
- 4. MANUAL AUGER FEED: If the unit runs out of fuel, this button can be used to "prime the auger system". This button will turn off after 60 seconds and then must

be released and pressed again.



- 6. **ON/OFF BUTTON:** Used to turn the unit ON and OFF.
- 7. **HEAT OUTPUT INDICATOR:** Shows the present heat output setting.
- 8. **HEAT LEVEL ADJUSTMENT:** When pressed, will change the

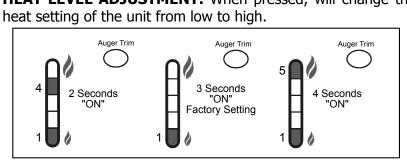


Figure 2: Auger trim and heat level indicator.

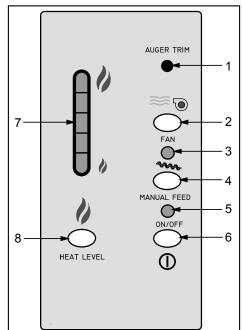


Figure 1: Circuit Board Control Panel Decal.

# OPERATING INSTRUCTIONS

### **OPERATING YOUR PELLET STOVE:**

**PRE-BURN INSTRUCTIONS**: The burn pot liner holes must be clear and the liner installed correctly against the ignitor tube for proper operation. Check the hopper for enough pellets to start the unit.

### DO NOT OPERATE THE UNIT WITH THE DOOR OR ASH PAN OPEN.

### **MANUAL MODE:**

**To START:** Press the ON / OFF button. The stove will turn on. The system light will flash. The Auger Light will flash with each pulse of the auger (the Auger Feed Rate is pre-programmed during start-up). The Heat Level Indicator will show the Heat Level that the stove will run at after start-up.

If this is the first time the unit has been started or the unit has run out of fuel, the auger will need to be primed. Press the Manual Auger Feed button until fuel starts to drop into the Burn Pot Liner (see "Operating Instructions - Control Board Functions").

**To OPERATE:** When a fire has been established, the System Light will turn solid (after approximately 10 - 15 minutes) and the Auger Light will continue to flash to the corresponding Heat Level setting. The Heat Level button can now be pressed at this time to change the desired Heat Level Output setting.

The convection blower (room air blower) will turn on. The speed of this blower is controlled by the setting of the heat level output indicator. The convection blower can be turned OFF by depressing the convection blower control button. When the air jacket reaches 160 °F (71 °C) the convection blower will come ON High, cooling the unit. For the best efficiency and to prevent cycling, the convection blower should be left on at all times.

When operating on LOW HEAT LEVEL, the feed rate can be adjusted, using the auger trim, for different quality fuels. These settings can be used if the fire keeps going out on low (for poor quality fuel) or if the low setting is too hot for the room (see "Operating Instructions - Control Board Functions").

### **THERMOSTAT / SWITCH MODE:**

**INITIAL START-UP**: See above

**OPERATION - HI / LOW mode**: When the thermostat contacts are closed the stove settings are adjustable as per Manual Mode (see above). When the thermostat contacts open, the circuit board will take control of the settings. The stove will drop down to a low burn until the thermostat contacts close again. This low burn setting can be adjusted for different fuel qualities (see "Operating Instructions - Control Board Functions"). The stove will come back to the previous HEAT LEVEL setting when the thermostat contacts close again.

**OPERATION – ON / OFF mode**: When the thermostat contacts close, the unit will light automatically. Once up to temperature, the stove operates the same as in manual mode (see above). When the thermostat contacts open, the unit automatically begins its shutdown routine. The stove will re-light when the thermostat contacts close again.

### TURNING YOUR PELLET STOVE OFF:

- MANUAL and HI / LOW mode: To turn the unit OFF, simply press the ON / OFF button. This will stop the feed of pellets. The blowers will continue to operate and cool the stove down. When cool enough, the stove will turn off.
- ON / OFF mode: To turn the unit OFF, turn the thermostat down or off.

DO NOT unplug unit while Combustion fan is operating. This may lead to smoke escaping from the stove.

# ROUTINE CLEANING AND MAINTENANCE

The following list of components should be inspected and maintained routinely to ensure that the appliance is operating at its optimum and giving you excellent heat value:

2-3 Days / Weekly	Semi-annually or 2 Tons of Fuel
Burn Pot and Liner	Exhaust Vent
Ash Pan	Fresh air Intake Tube
Inside Firebox	Blower Mechanisms
Door Glass	Heat exchanger tubes
Heat exchanger tubes	Behind firebox liners
Ash pan and Door gaskets	All Hinges
Door Latch	Post Season Clean-up

### **TOOLS REQUIRED TO CLEAN UNIT**

- Torx T-20 Screwdriver
- Brush
- Soft Cloth

- 5/16" Wrench or Socket Vacuum with fine filter bag

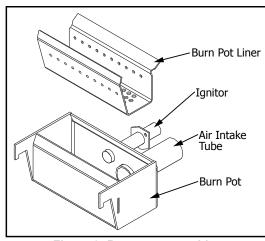


Figure 3: Burn pot assembly.

### **BURN POT AND LINER** (2-3 days)

Cleaning of the burn pot and liner must only be done when stove is cold. To remove the burn pot and burn pot liner, open the door using the door handle provided (located on the right-hand side of the stove). Swing the door open. Lift the liner from the burn pot. Lift the burn pot from the firebox by gently lifting up the front of the burn pot, then sliding the assembly from the air intake tube and the ignitor cartridge.

This is the 'pot' where the pellets are burned. Every two to three days (when the unit is cold), remove the burn-pot liner from the stove and inspected it to ensure proper air flow through the liner. Failure to keep the liner clean may cause a build up of fuel past the burn pot liner and up the drop tube. This will cause the auger to jam and may result in pellets burning in the drop tube and **hopper**. Using a metal scrapper, remove material that has accumulated or is clogging the liner's holes. Then dispose of the scrapped ashes from the liner and from inside the burn-pot. Place the burn-pot back into the stove, making sure that the pipes are properly inserted into the burn pot. Place the liner back into the burn-pot, making sure that the ignitor hole in the liner is aligned with the ignitor tube. Pushing the liner up against the ignitor tube.

If, after long periods of burning, the fire continually builds up and overflows the burn pot or there is a build up of clinkers, this is an indication that the pellet fuel quality is poor or the stove may need cleaning. Check the stove for ash build up (clean if required) and adjust the slider / damper to produce the proper clean combustion.

### **DOOR GLASS CLEANING (2-3 days)**

Cleaning of the glass must only be done when stove is cold. Open the door by lifting the handle. The glass can be cleaned by wiping down the outside and inside of the glass with a dry soft cloth.

If the glass has build up that can not be removed with only the cloth, clean the glass using paper towel and a gas appliance glass cleaner, this may be purchased through most dealers. If a gas appliance glass cleaner is not available, use a damp paper towel dipped in fly ash to clean the glass. After the glass has been cleaned use the dry soft cloth to wiping down the outside and inside of the glass

### **DOOR LATCH** (2-3 days)

Check the door latch every time the door is opened or closed to ensure proper movement.

# ROUTINE CLEANING AND MAINTENANCE

### **ASH PAN AND DOOR GASKETS** (weekly)

After extended use the gasketing may come loose. To repair this, glue the gasketing on using high-temperature fiberglass gasket glue available from your local ENVIRO dealer. This is important to maintain an airtight assembly.

### **ASH PAN** (weekly)

The ash pan is located under the burner. To remove the ash pan, simply turn the knob and pull out towards the front. Dump the ashes into a metal container stored away from combustibles. Monitor the ash level every week. Remember that different pellet fuels will have different ash contents. Ash content is a good indication of fuel efficiency and quality. Refer to "Introduction - Safety Warnings and Recommendations" for disposal of ashes.

### DO NOT PLACE UNBURNED OR RAW PELLET FUEL IN ASH PAN.

### **HEAT EXCHANGER TUBES** (weekly)

Open the door and the rod is located under the unit top, in the center of the stove just behind the door. This handle is to be pushed in and out a few times **(ONLY WHEN THE UNIT IS COLD)** in order to clean away any fly ash that may have collected on the heat exchanger tubes. As different types of pellets produce different amounts of ash, cleaning of the tubes should be done on a regular basis to enable the unit to run efficiently.

### FRESH AIR INTAKE (season)

Inspect periodically to be sure that it is not cloqged with any foreign materials.

### **EXHAUST PASSAGES** (season)

### Removal of the firebox backing for bi-annual cleaning (refer to Figure 4):

- Open the door by lifting the handle.
- Remove the burn pot and burn pot liner.
- Lubricate all screws with penetrating oil.
- Remove the four (4) screws that hold the brick liner retainers in place. Remove side brick liners by sliding them forward then out.
- Pull the center panel out.
- Vacuum and clean thoroughly.

### **Installation of firebox backing:**

- Insert center panel with backing.
- Place the two (2) side panels back into the firebox and reinstall the two (2) retainers using two (2) screws on each side.
- Replace the burn pot and burn pot liner
- Close the glass door and secure.

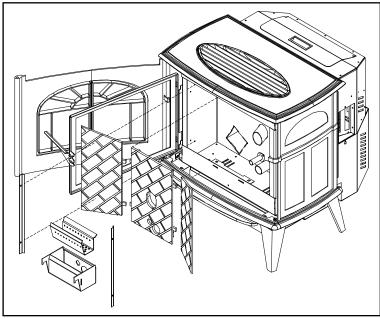


Figure 4: Firebox Components Removal.

# ROUTINE CLEANING AND MAINTENANCE

### **EXHAUST VENT** (season)

This vent should be cleaned every year or after two (2) tons of pellets. We recommend contacting your dealer for professional cleaning. To clean the vent pipe, tap lightly on the pipe to dislodge any loose ash. Open the bottom of the "T" to dump the ash, then vacuum as much of the ash out of the vent pipe as possible.

### **BLOWER MECHANISMS** (season)

Unplug the stove then open the right and left side panels to access the two blowers. Vacuum all dust from motors. DO NOT lubricate the motors. Check gaskets and replace if needed.

### **ALL HINGES** (season)

Check all the hinges on the unit to ensure proper movement.

### **POST SEASON CLEAN-UP**

Once you are finished using the pellet appliance for the season, unplug the stove for added electrical protection. It is very important that the stove be cleaned and serviced as stated above.

### **CLEANING SURFACES**

Enamel finishes and painted surfaces can be wiped down with a soft damp cloth. The paint on the steel firebox panels may peel. This is due to extreme conditions applied to the paint and is in no way covered by warranty.

### **FIREBOX PANEL**

All surfaces should be wiped down periodically with a damp cloth.

### REPLACING DOOR GLASS

### It is recommended that your ENVIRO dealer replace the glass if broken.

The door glass is made of high temperature PYRO CERAMIC 5 mm thick. The center panel is  $18.5 \times 13.5$  inches (46.99 cm x 34.29 cm) and must be replaced with (PART # 20-023). Substitute materials will not be permitted.

### **DECIDING WHERE TO LOCATE YOUR PELLET APPLIANCE:**

- 1. Check clearances to combustibles (see Installation Clearances to Combustibles and Installation Alcove Clearances).
- 2. Do not obtain combustion air from an attic, garage or any unventilated space. Combustion air may be obtained from a ventilated crawlspace.
- 3. Do not install the stove in a bedroom.
- 4. You can vent the stove through an exterior wall behind the unit or connect it to an existing masonry or metal chimney (must be lined if the chimney is over 6" (15 cm) diameter, or over 28 inches² (180 cm²) cross sectional area). An interior vent can be used with approved pipe passing through the ceiling and roof.
- 5. Locate the stove in a large and open room that is centrally located in the house. This will optimize heat circulation.
- 6. The power cord is 8 feet (2.43 m) long and may require a grounded extension cord to reach the nearest electrical outlet.



### www.nficertified.org

We recommend that our pellet hearth products be installed and serviced by professionals who are certified in the U.S. by the National Fireplace Institute® (NFI) as NFI Pellet Specialists or who are certified in Canada by Wood Energy Technical Training (WETT).



### REMOVING PELLET STOVE FROM PALLET:

Remove screws from the two (2) hold-down brackets that secure the Windsor to the pallet. Lift the brackets up to unhook from the chassis.

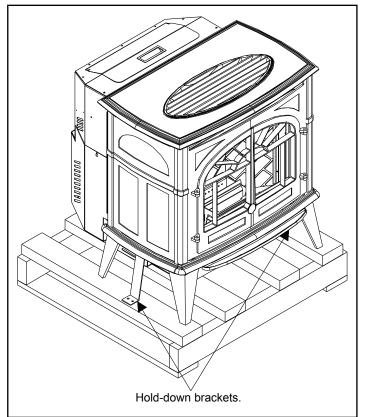


Figure 5: Removing Freestanding Stove From the Pallet.

### **DIMENSIONS:**

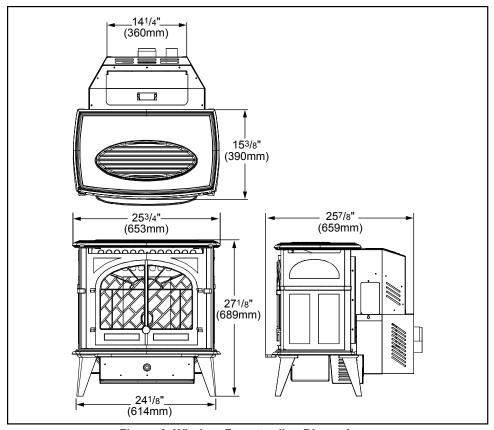


Figure 6: Windsor Freestanding Dimensions.

### **CLEARANCES TO COMBUSTIBLES:**

These dimensions are minimum clearances but it is recommended that you ensure sufficient room for serving, routine cleaning and maintenance.

This pellet stove requires floor protection. The floor protection must be non-combustible, extending beneath the stove the full width and depth of the unit including 6" (150 mm) in front for ember protection.

Hearth Pad Size:

Width: 25 %" (651 mm) Depth: 32 1/8 " (816 mm)

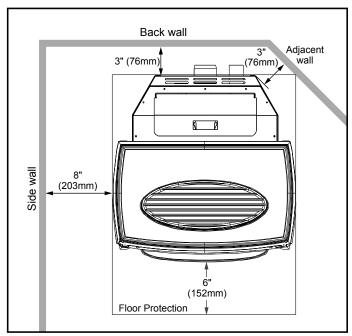


Figure 7: Minimum Clearances to Combustibles for Freestanding Windsor.

### **ALCOVE CLEARANCES:**

This unit may be installed in an alcove. Maintain the clearances to combustibles shown in Figure 8.

Install vent at clearances specified by the vent manufacturer.

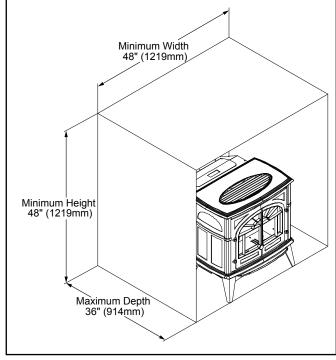


Figure 8: Alcove Clearances.

### MOBILE HOME INSTALLATION:

- Secure the heater to the floor using the holes in the leg of the appliance (normally used for the leveling legs).
- Ensure the unit is electrically grounded to the chassis of your home (permanently).

# WARNING: Do not install in a room people sleep in.

# <u>CAUTION</u>: The structural integrity of the manufactured home floor, wall and ceiling/roof must be maintained

 Outside fresh air is mandatory. Secure outside air connections directly to fresh air intake pipe and secure with three (3) screws evenly spaced.

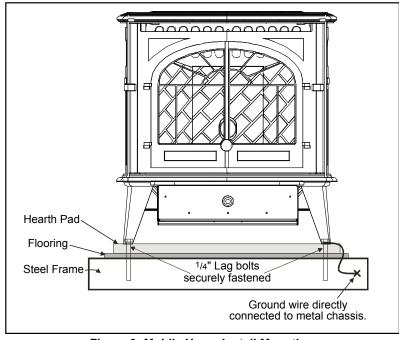


Figure 9: Mobile Home Install Mounting.

### **EXHAUST AND FRESH AIR INTAKE LOCATIONS:**

INSTALL VENT AT CLEARANCES SPECIFIED BY THE VENTING MANUFACTURER

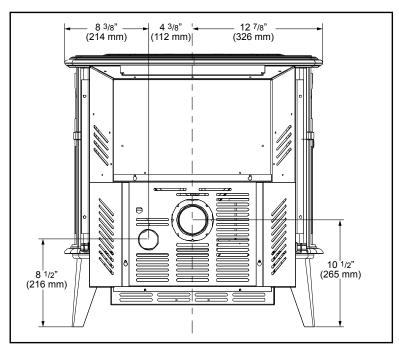


Figure 10: Inlet and Outlet Location.

### **EXHAUST**

Base of unit to center of flue	10 %″	(270 mm)
Side of unit to center of flue	12 1/8"	(308 mm)
Center of unit to center of flue	3/4"	(19 mm)
FRESH AIR INTAKE.		
Base of unit to center of intake	8 ¾"	(222 mm)

Base of unit to center of intake 8 ¾" (222 mm) Side of unit to center of intake 7 ¾" (197 mm) Center of unit to center of flue 5 ½" (130 mm)

### **OUTSIDE FRESH-AIR CONNECTION:**

Outside fresh air is mandatory when installing this unit in airtight homes and mobile homes.

A Fresh-air intake is strongly recommended for all installations. Failure to install intake air may result in improper combustion as well as the unit smoking during power failures.

When connecting to an outside fresh air source, do not use plastic or combustible pipe. A 2" minimum (51 mm) ID (inside diameter) steel, aluminum or copper pipe should be used. It is recommended, when you are installing a fresh air system, to keep the number of bends in the pipe to a minimum.

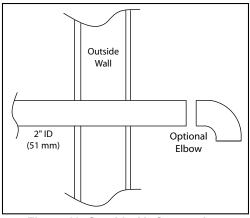


Figure 11: Outside Air Connection.

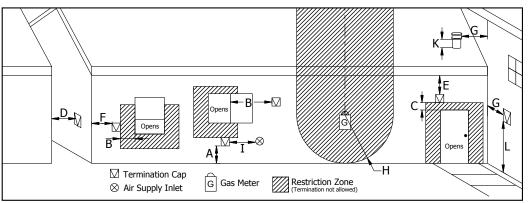
### **VENT TERMINATION REQUIREMENTS:**

### IT IS RECOMMENDED THAT YOUR PELLET STOVE BE INSTALLED BY AN AUTHORIZED DEALER/INSTALLER.

Table 1: Use in conj	unction with Figure	12 for allowable exterio	r vent termination locations.

Letter	Minimum Clearance	Description	
Α	24 in (61 cm)	Above grass, top of plants, wood, or any other combustible materials.	
В	48 in (122 cm)	From beside/below any door or window that may be opened.	
С	24 in (61 cm)	From above any door or window that may be opened.	
D	24 in (61 cm)	To any adjacent building, fences and protruding parts of the structure.	
Е	24 in (61 cm)	Below any eave or roof overhang	
F	12 in (30 cm)	To outside corner.	
G	12 in (30 cm)	To inside corner, combustible wall (vertical and horizontal terminations).	
Н	3 ft (91 cm) within a height of 15 ft (4.5 m) above the meter/regulator assembly	To each side of center line extended above natural gas or propane meter/regulator assembly or mechanical vent.	
I	3 ft (91 cm)	From any forced air intake of other appliance	
J	12 in (30 cm)	Clearance to non-mechanical air supply inlet to building, or the combustion air inlet to any appliance.	
K	24 in (61 cm)	Clearance above roof line for vertical terminations.	
L	7 ft (2.13 m)	Clearance above paved sidewalk or paved driveway located on public property.	

1. Do not terminate the vent in any enclosed or semienclosed areas such as a carport, garage, attic, crawlspace, narrow walkway, closely fenced area, under a sundeck or porch, location anv a concentration of



that can build up Figure 12: Use in conjunction with Table 1 for allowable exterior vent termination locations.

fumes such as stairwells, covered breezeway, etc.

- 2. Vent surfaces can become hot enough to cause burns if touched by children. Non-combustible shielding or guards may be required.
- 3. Termination must exhaust above the inlet elevation. It is recommended that at least five feet of vertical pipe be installed outside when the appliance is vented directly through a wall, to create some natural draft to prevent the possibility of smoke or odor during appliance shut down or power failure. This will keep exhaust from causing a nuisance or hazard from exposing people or shrubs to high temperatures. In any case, the safest and preferred venting method is to extend the vent through the roof vertically.
- 4. Distance from the bottom of the termination and grade is 12" (30 cm) minimum. This is conditional upon the plants and nature of grade surface. The exhaust gases are hot enough to ignite grass, plants and shrubs located in the vicinity of termination. The grade surface must not be lawn.
- 5. If the unit is incorrectly vented or the air to fuel mixture is out of balance, a slight discoloration of the exterior of the house might occur. Since these factors are beyond the control of Sherwood Industries Ltd, we grant no guarantee against such incidents.

NOTE: Venting terminals shall not be recessed into walls or siding.

### CORNER THROUGH WALL INSTALLATION:

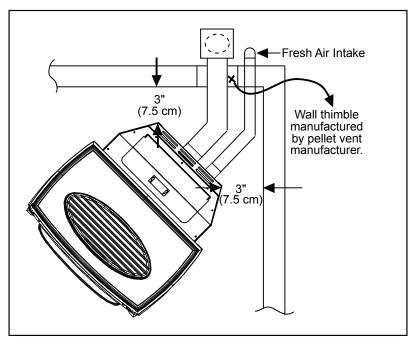


Figure 13: Corner Installation.

### HORIZONTAL EXHAUST THROUGH WALL INSTALLATION:

### Vent installation: install vent at clearances specified by the vent manufacturer.

A chimney connector shall not pass through an attic or roof space, closet or similar concealed spaces, or a floor, or ceiling. Where passage through a wall or partition of combustible construction is desired, the installation shall conform to CAN/CSA-B365 Installation Code for Solid-Fuel-Burning Appliances and Equipment. Only use venting of L or PL type with an inside diameter of 3 or 4 inches (7.6 or 10.1 cm).

- 1. Choose a location for your stove that meets the requirements stated in this manual and allows installation with the least amount of interference to house framing, plumbing, wiring, etc.
- 2. Install a non-combustible hearth pad (where necessary).
- 3. Place the appliance 15" (37.5 cm) away from the wall. If the stove is to be set on a hearth pad, set the unit on it.
- 4. Locate the center of the exhaust pipe on the stove. Extend that line to the wall. Once you have located the center point on the wall, refer to pellet vent manufacturer installation instructions for correct hole size and clearance to combustibles.
- 5. Install the wall thimble as per the instructions written on the thimble. Maintain an effective vapour barrier in accordance with local building codes.
- 6. Install a length of 3" (76 mm) or 4" (101 mm) vent pipe into the wall thimble. The pipe should install easily into the thimble.
- 7. Install the fresh air intake (see Installation Outside Fresh Air Connection).
- 8. Connect the exhaust vent pipe to the exhaust pipe on the stove. Seal the connection with high temperature silicone.
- 9. Push the stove straight back, leaving a minimum of 3" (76 mm) clearance from the back of the stove to the wall. Seal the vent pipe to the thimble with high temperature silicone.

- 10. The pipe must extend at least 12" (30 cm) away from the building. necessary, bring another length of pipe (PL type) to the outside of the home to connect to the first section. Do not forget to place high temperature silicone around the pipe that through passes the thimble.
- 11. Install a vertical pipe, or if all requirements for direct venting are met, install vent termination. The stainless steel cap

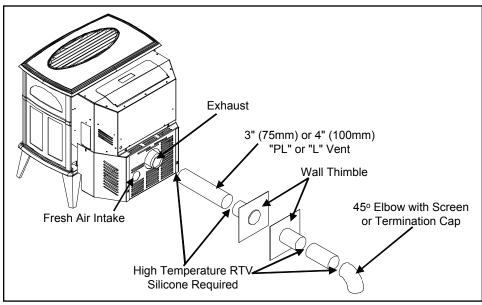


Figure 14: Straight through wall Installation.

termination manufactured by the vent manufacturer is recommended. However, when the vent terminates several feet above ground level and there are no trees, plants, etc. within several feet, a 45° elbow can be used as termination. The elbow must be turned down to prevent rain from entering.

### NOTE:

- Some horizontal through wall installations may require a "T" and 3 to 5 feet (91 to 152 cm) of vertical pipe outside the building to help naturally draft in the unit.
- This may be required if a proper burn cannot be maintained, after the stove has been tested and the airflow set.
- This is due to the back pressure in the exhaust caused by airflow around the structure.
- All sections of pipe must have three (3) screws evenly spaced and all horizontal and vertical vent sections located within the house must have a bead of high temperature silicone installed on the male end of the pipe before installation to create a gas tight seal.
- The termination must be 12 inches (30 cm) from the outside wall and 12 inches (30 cm) above the ground.
- A 45° elbow with a rodent screen may be used in place of the termination cap (or stainless steel termination hood).

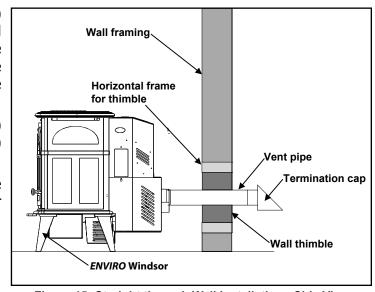


Figure 15: Straight through Wall Installation - Side View.

### VERTICAL RISE WITH HORIZONTAL TERMINATION INSTALLATION (RECOMMENDED):

A 45° elbow with a rodent screen may be used in place of the termination cap (or stainless steel termination hood).

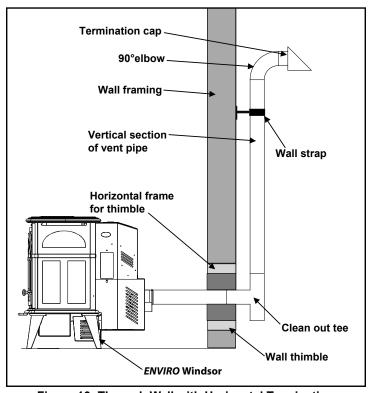


Figure 16: Through Wall with Horizontal Termination.

### THROUGH CONCRETE WALL WITH VERTICAL RISE INSTALLATIONS:

A 45° elbow with a rodent screen may be used in place of the termination cap (or stainless steel termination hood).

This is the recommended installation to use if there is a concrete or retaining wall in line with exhaust vent on pellet stove.

The termination must be 12'' (305 mm) from the outside wall and 12'' (305 mm) above the ground.

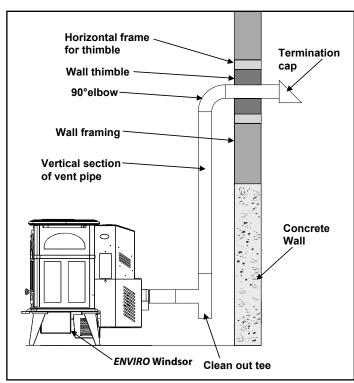


Figure 17: Vertical rise with Horizontal Termination.

### INSIDE VERTICAL INSTALLATIONS:

- 1. Choose a stove location that is ideal. See the section "Installation Deciding Where to Locate your Pellet Appliance."
- 2. Place the unit on the hearth pad (if installed on a carpeted surface) and space the unit in a manner so when the pellet vent is installed vertically, it will be 3" (76 mm) away from a combustible wall.
- 3. Locate the center of the fresh air intake pipe on the unit. Match that center with the same point on the wall and cut a hole about 2" (52 mm) in diameter.
- 4. Install the fresh air intake pipe.
- 5. Install the tee with clean out.
- 6. Install the pellet vent upward from there. When you reach the ceiling, make sure that the vent goes through the ceiling fire stop. Maintain a 3" (76 mm) distance to combustibles and keep attic insulation away from the vent pipe. Maintain an effective vapor barrier.
- 7. Finally, extend the pellet vent to go through the roof flashing.
- 8. Ensure that the rain cap is approximately 24" (610 mm) above the roof.

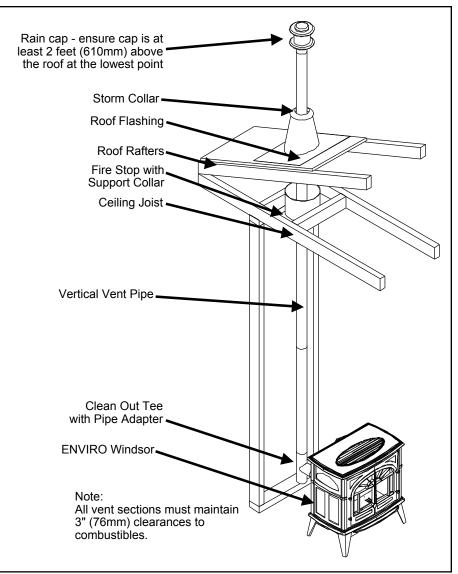


Figure 18: Inside Vertical Installation.

### **O**UTSIDE **V**ERTICAL **I**NSTALLATIONS:

To accomplish a outside vertical pipe installation, follow steps 1 through 5 in the "Installations" section and then finish it by performing the following (refer to Figure 19).

- 1. Install a tee with clean out on the outside of the house.
- 2. Install PL vent upward from the tee. Make sure that you install support brackets to keep the vent straight and secure.
- 3. Install ceiling thimble and secure the flashing as you go through the roof.
- 4. Ensure that the rain cap is approximately 24" (610 mm) above the roof.

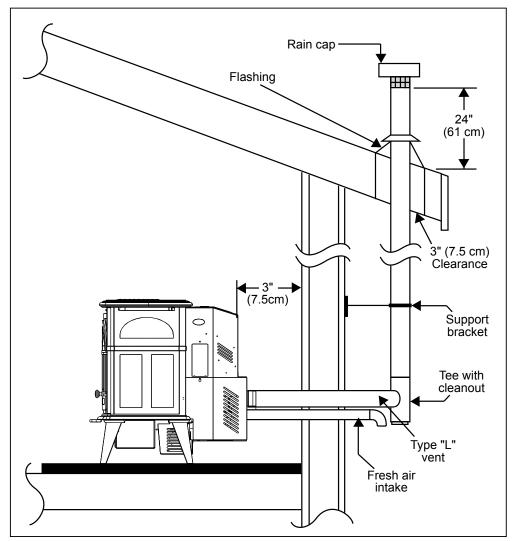


Figure 19: Outside Vertical Installation.

### **HEARTH MOUNT INSTALLATION:**

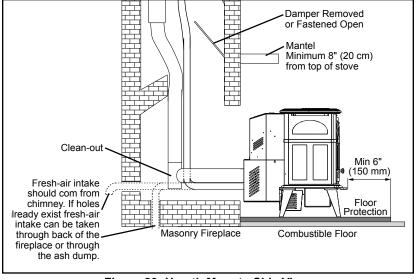
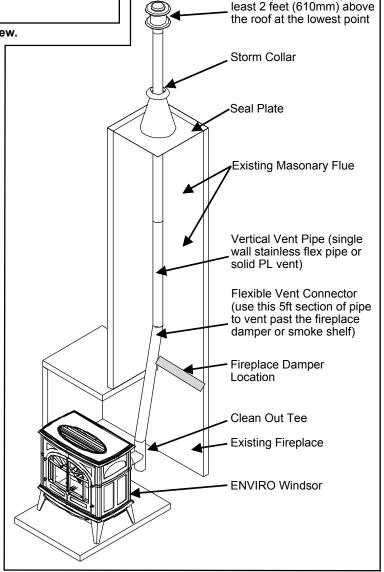


Figure 20: Hearth Mount - Side View.

- 1. Lock fireplace damper in the open position.
- 2. Install a positive flue connector at the fireplace dampers.
- 3. Connect a clean-out tee or a 90° elbow to the exhaust pipe.
- 4. Install flexible stainless steel liner or listed pellet vent to the top of the chimney.



Rain cap - ensure cap is at

Figure 21: Hearth Mount - Over View.

### INSTALLATION WITH EXTERIOR MOUNTED EXHAUST BLOWER:

The WINDSOR can be equipped with an externally mounted exhaust blower (PART #20-070). This optional kit will include all components necessary to install the exhaust blower on any external vertical wall surface.

Choose a location for your stove that meets the requirements stated in this manual and allows installation with the least amount of interference to house framing, plumbing, wiring, etc.

Included in the exterior mounted exhaust blower kit

<u>are:</u> 1 - Exhaust blower housing box.

- 1 Blower cover plate.
- 1 Hardware bag
- 1. Open the left side of the unit and disconnect the exhaust blower wires from the harness. Remove the exhaust blower by undoing the six (6) 1/4 hex head sheet metal screws that fasten the blower to the housing.
- 2. Remove the back grill from the exterior exhaust vent housing and remove the round cover plate installed on the blower housing.
- 3. Install the round cover plate over the gasketed opening in the stove where the exhaust motor was removed from.
- 4. Install the exhaust blower motor in the Exterior Vent Housing Box onto the exhaust blower housing.

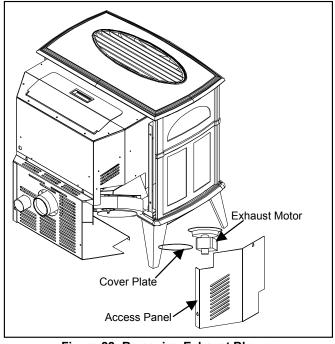


Figure 22: Removing Exhaust Blower.

- 5. Follow the procedures for Installation Horizontal Exhaust Through Wall Installation. Place the unit in the desired location. Cut the hole in the wall at the desired location. Install a wall thimble.
- 6. Drill holes in the wall thimble in the corresponding locations for wire and fresh air if needed. Install wire clamps and feed wire through the hole in the thimble into the house. Tighten clamp on wire and attach green ground wire (at the symbol) with the screw and star washer provided.
- 7. Attach a short or an adjustable section of 3" of double wall pellet vent through the wall thimble to the stove. Seal all joints with silicone. Maintain clearances to combustibles.
- 8. Apply silicone to the pipe in the Exhaust Box, slide the pipe into the exhaust vent. Mount the Exhaust Box to the house. Reinstall the back grill on the Exterior Vent Housing Box. Apply normal venting practices when installing the vertical vent pipe.

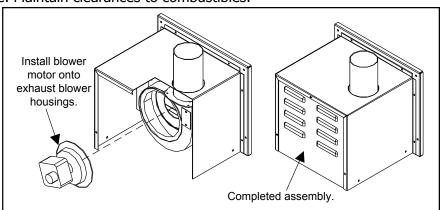


Figure 23: Exterior Exhaust Blower.

- 9. Connect the wires in the stove. Re-install the left side access cover to the stove and the back grill on the exterior vent housing.
- 10. Set the Slider Damper as described in the Installation Slider/Damper Setting" section.

### **NOTE:**

Ensure that all vent connections are installed by placing three (3) screws evenly spaced and a small bead of high temperature silicone at each chimney connection. Also ensure that all vertical vent sections are properly supported and that all clearances to combustibles are maintained in accordance with the vent manufacturer's specifications.

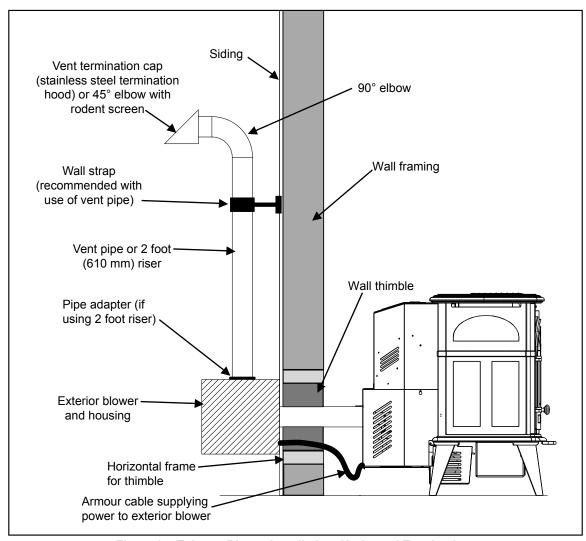


Figure 24: Exhaust Blower Installation; Horizontal Termination.

### TO SUPPLY POWER TO THE EXHAUST BLOWER:

Install an amour coated electrical cable from the exhaust blower housing, through the wall thimble, and attach to the pre-drilled hole in the left hand rear hopper pillar. Hook up to wires from the wiring harness for the exhaust blower. All electrical connections must be in accordance with local code requirements (see Wiring Diagram).

### THROUGH WALL VERTICAL INSTALLATION WITH EXHAUST BLOWER:

Refer to Installation - Installation with Exterior Mounted Exhaust Blower and Installation - Outside Vertical Installations. Ensure that vent pipe is properly secured to wall using wall straps. Maintain clearances to combustibles on vent pipe as well as unit.

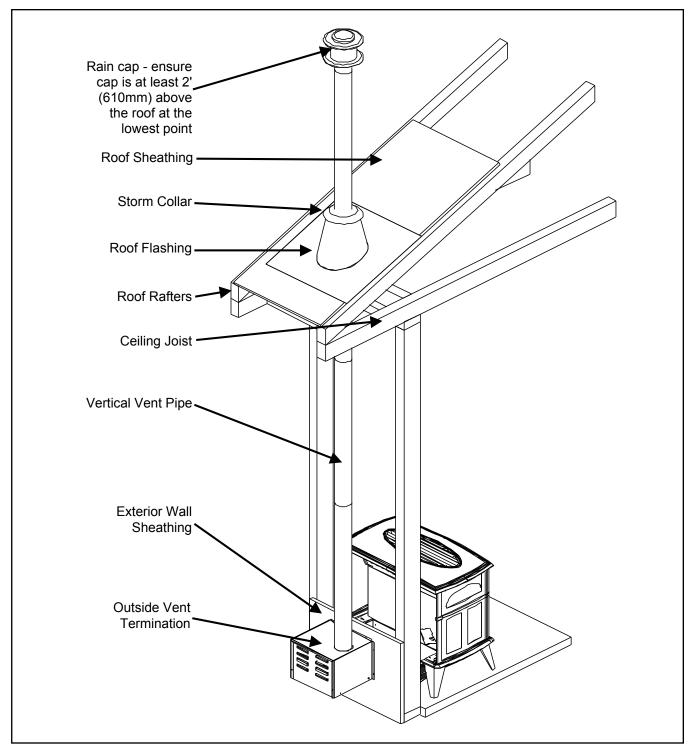


Figure 25: Exhaust Blower Installation; Vertical Termination.

### THERMOSTAT INSTALLED:

This control board can be placed into two (2) different modes:

**HI / LOW OPERATION:** When the jumper J9 is not jumped then the control board is in a HI / LOW mode operation. If the unit has been placed in the HI / LOW mode, the unit will be taken to a low or idle setting when the thermostat is not calling for heat. When the thermostat calls for heat, the unit will go to the setting that is displayed on the control board Heat Indicator. If the heating load is not great enough when the stove is on low, the high limit switch will turn the stove off and the switch will have to be manually reset. To reset the high limit switch, remove the right cabinet side. The switch is found behind the control panel. Avoid setting off the high limit switch.

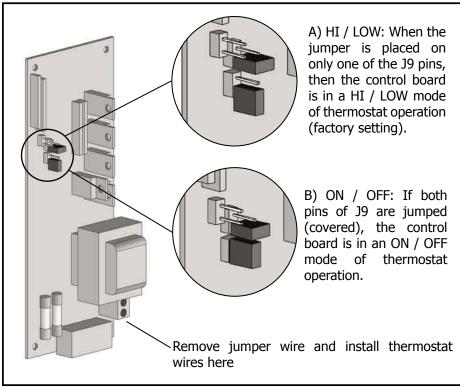


Figure 26: Pin Placement on Circuit Board.

- **ON / OFF OPERATION:** If the control board is placed with J9 jumped then the control board is in a ON / OFF mode of operation. In the ON /OFF thermostat mode, when the thermostat calls for heat, the unit will go through an ignition sequence and light the stove. Once lit the unit will operate at the selected setting displayed on the control board Heat Output Indicator. Once the thermostat stops calling for heat, the unit will stop feeding pellets and begin its shut down sequence until cold then turn off.
- 1. Install the Low Voltage Thermostat (maximum 24V) in a location that is not to close too the unit but will effectively monitor the desired area to be heated.
- 2. Open the right cab side to expose thermostat wires and disconnect. Install 18 gauge (see Wiring Diagram) or heavier wire through the grommet in the back, from the stove to the thermostat. Connect thermostat wires to red wires provided.
- 3. To set the thermostat jumper to the desired mode, remove the two (2) screws holding the circuit board control panel in place. Lower the board and pull out to change jumper.

### SLIDER/DAMPER SETTING:

# THE SLIDER / DAMPER MUST BE SET AT TIME OF INSTALLATION, IT IS USED TO REGULATE THE AIRFLOW THROUGH THE PELLET STOVE.

### A Qualified Service Technician or Installer must set the Slider Damper.

The slider damper should be set only on a hot stove (operating for thirty (30) minutes or more) by placing a Magnahelic Pressure Gauge in the firebox (test port is located in the center of the stove just below the

door opening). Set the slider damper so that the pressure reads 0.18" to 0.20" W.C. (44.8 to 49.8 Pa). Some fuels may require higher or lower settings. The pressure readings are taken through a hole in the front of the firebox under the door, using a Magnehelic Gauge.

The slider damper is located behind the left cab side. Undo the two (2) T-20 torx screws that hold the inspection cover on the left side and remove.

The combustion exhaust blower is a variable speed blower controlled by the heat output button. This blower will decrease the

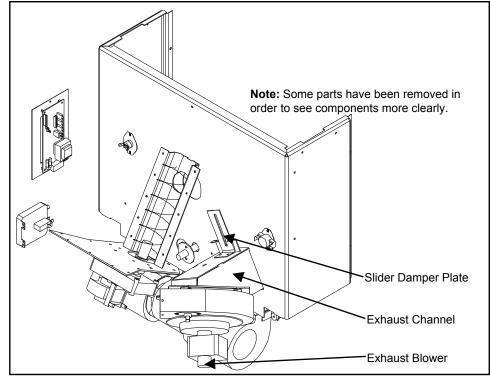


Figure 27: Slider / Damper

vacuum pressure inside the stove and as the heat output button is turned down. The vacuum pressure inside the firebox will increase as the combustion exhaust blower increases in speed (higher heat output setting).

- If the fire should happen to go out and the heat output indicator has been set on the lowest setting, the Slider Damper should be pushed in slightly, decreasing the air in the firebox.
- If, after long periods of burning, the fire builds up and overflows the burn pot or there is a build up of clinkers, this would be a sign that the pellet quality is poor, this requires more primary air, the slider damper must be pulled out to compensate. Pulling the slider damper out gives the fire more air.

The easiest way to make sure that an efficient flame is achieved is to understand the characteristics of the fire.

- A tall, lazy flame with dark orange tips requires more air Open slider (pull out) slightly.
- A short, brisk flame, like a blowtorch, has too much air Close slider (push in) slightly.
- If the flame is in the middle of these two characteristics with a bright yellow/orange, active flame with no black tips then the air is set for proper operation.

### **SPECIAL NOTES:**

Pellet quality is a major factor in how the pellet stove will operate. If the pellets have a high moisture content or ash content the fire will be less efficient and has a higher possibility of the fire building up and creating clinkers (hard ash build-up). If this happens, pull the Slider Damper out slightly to increase the air flow to the fire.

### TROUBLESHOOTING

### DO NOT:

- Service the stove with wet hands. The stove is an electrical appliance, which may pose a shock hazard if handled improperly. Only qualified technicians should deal with possible internal electrical failures.
- Do not remove from the firebox any screws without penetrating oil lubrication.
- Hold the ON / OFF BUTTON down. This is a momentary contact switch and can be damaged if held down too long.

### WHAT TO DO IF:

- 1. The stove will not start.
- 2. The stove will not operate when hot.
- 3. The exhaust blower will not function normally.
- 4. Light # 2 on Heat output bar flashing.
- 5. The auger motor will not function normally.
- 6. The 200 °F (93 °C) high limit temperature sensor has tripped.
- 7. The convection blower will not function normally.
- 8. Ignitor- the pellets will not light.
- 9. Control settings (Heat Level) has no effect on the fire.
- 10. The stove keeps going out.

# \*NOTE: All troubleshooting procedures should be carried out by qualified technicians or installers.

### 1. The stove will not start.

- ✓ Make sure the stove is plugged in and the wall outlet is supplying power.
- ✓ Push the ON /OFF button. You may need to wait approximately 30 seconds for circuit board to initiate the stove is on.
- ✓ If the control board has been placed in the on/off thermostat mode, then turn the thermostat up to call for heat.
- ✓ Check the heat level indicator. If the # 2 light is flashing refer to "4. Light # 2 on Heat output bar flashing.")
- ✓ Check the fuses on the circuit board (see "Troubleshooting Fuses").
- ✓ If the unit still does not start, contact your local service dealer for service.

### 2. The stove will not operate when hot.

- √Check the heat level indicator if a fire is not detected, or if the fire has gone out the #3 light will flash because the exhaust temperature sensor's contacts have opened.
- ✓ Check the hopper for fuel.
- ✓Incorrect air damper setting. Excessive air may consume the fire too quickly before the next drop of fuel, leaving completely unburned fuel in the burn pot liner. Insufficient air will cause build up, further restricting the air flow through the burn pot liner. This in turn will cause the fuel to burn cold and very slowly. Fuel may build up and smother the fire. In this case clean the burn pot. (Note: the unit may require a change to the vent system or installation of fresh air to correct air to fuel ratio problems).
- ✓ Combustion blower failure. The combustion blower is not turning fast enough to generate the proper vacuum in the fire box. Visual check is the blower motor turning.
- √Check the exhaust blower voltage across the blower wires (>=114V on #5 setting and >= 82V on #1 setting). Replace the Circuit Board if the Voltage reading is less than 82V. with a line voltage >115V AC.
- ✓ Check vacuum levels in the exhaust channel by bypassing the vacuum switch, then remove the vacuum

# TROUBLESHOOTING

hose from vacuum switch. Check exhaust vacuum readings by placing the open end of the vacuum hose on a Magnahelic Gauge (readings must be above 0.18" to 0.20" W.C. (44.8 to 49.8 Pa) on low fire). If the motor fails to reach a 0.10" W.C. readings, then replace the combustion blower.

- ✓ Poor quality fuel insufficient energy in the fuel to produce enough heat to keep the stove burning or operational.
- ✓ Exhaust temperature sensor failure. Bypass sensor located on exhaust blower if stove now operates properly, the unit may require cleaning or a new sensor. Contact your local dealer for service.
- √The burn pot liner may require cleaning. Build up in the burn pot will cause the unit to shut off.
- ✓ Check the fuses on the circuit board (see "Troubleshooting Fuses").
- ✓ Contact your local dealer for service.

### 3. The exhaust motor will not function normally.

- ✓ Open the left side access panel; check all connections against the wiring diagram.
- ✓ See "2. The stove will not operate when hot." Section.

### 4. Light # 2 on Heat output bar flashing

(The Vacuum Switch contacts have opened for more than 15 sec.)

- ✓ Pinch, break or blockage in vacuum hose check hose for pinch points or damage, replace or re-route as required. Blow out vacuum hose
- ✓ Blocked hose barb on exhaust channel use a paper clip to clean out hose barb or remove the vacuum hose from the vacuum switch and blow into the hose to remove blockage.
- ✓ Blocked exhaust / venting system have stove and venting cleaned and inspected.
- ✓ Severe negative pressure in area where unit is installed check the operation by opening a window, does this solve the problem? If it does, install fresh air intake to unit or room. Venting system may require vertical section to move termination into a low pressure zone.
- ✓ Vacuum switch failure bypass the vacuum switch, if this corrects the problem check for above problems before replacing the vacuum switch.
- ✓ Damage to gray wires between circuit board and vacuum switch inspect wires and connectors
- ✓ Combustion blower failure the combustion blower is not turning fast enough to generate the proper vacuum in the exhaust channel. Visual check; is the blower motor turning? Check the exhaust blower voltage across the blower wires (>=114V on #5 setting and >= 82V on #1 setting). Replace the circuit board if the Voltage reading is less than 82V. with a line voltage >114V AC.
- ✓ Check vacuum levels in the exhaust channel by bypassing the vacuum switch, then remove the Vacuum hose from Vacuum Switch. Check exhaust vacuum readings by placing the open end of the Vacuum Hose on a Magnahelic Gauge. (readings must be above .10″ W.C. on low fire).

If the motor fails to reach a 0.10" W.C. readings, then replace the combustion blower

### To reset Circuit Board after a trouble code - push the ON/OFF button

### 5. The auger motor will not function normally.

- √The burn pot liner may require cleaning. Build up in the burn pot will cause the unit to shut off.
- ✓ Check for obstructions in the hopper system.
- ✓ Ensure door is closed and ash pan is closed. The auger motor will stop if there is not enough vacuum in the stove.
- ✓ Call your local dealer for service.

Auger light flashes but auger motor does not turn at all.

- ✓ If the auger gear box does not turn but the motor's armature does try to spin then the auger is jammed.
  - Try to break apart jam by poking at the jam through the drop tube. If this fails then empty the hopper and remove the auger cover \*\*remember to re-seal the cover after installation\*\*
- √ Check the fuses on the circuit board (see "Troubleshooting Fuses").

### TROUBLESHOOTING

### 6. The 200 °F ( 93 °C) high limit temperature sensor has tripped.

- ✓ Reset sensor and determine cause was it convection blower failure or 160 °F (71 °C) temperature sensor failure? Bypass the 160 °F (71 °C) sensor, does the convection blower come on high? If no, replace the blower. If yes, replace sensor (located on the left side of the firewall).
- ✓ Check the fuses on the circuit board (see "Troubleshooting Fuses").

### 7. The convection blower will not function normally.

- ✓ Clean all grill openings at the back and below unit .
- ✓ Press the fan button; does the fan come on? Press again to verify that the blower turns on; if, not contact your local dealer for service.

### 8. Ignitor- the pellets will not light.

(Everything else in the stove operates but the ignitor will not light the pellets.)

- ✓ Make sure the burn pot liner is up tight and square to the ignitor tube by pushing the burn pot back against the ignitor tube.
- ✓ Check to see if the exhaust blower is operating. If not, contact your local dealer for service.
- ✓ Check the fuses on the circuit board (see "Troubleshooting Fuses").

**NOTE:** The ignitor should be bright orange in color. If not replace the ignitor.

### 9. Control settings (Heat Level) has no effect on the fire.

- ✓ Note: If the system light is flashing the control board has complete control of the unit. When the units system light becomes solid then control of the unit is given back to the operator.
- ✓ If there is no control of the heat level button make sure the thermostat is calling for heat.
- ✓ Call your local dealer for service.

### 10. The stove keeps going out.

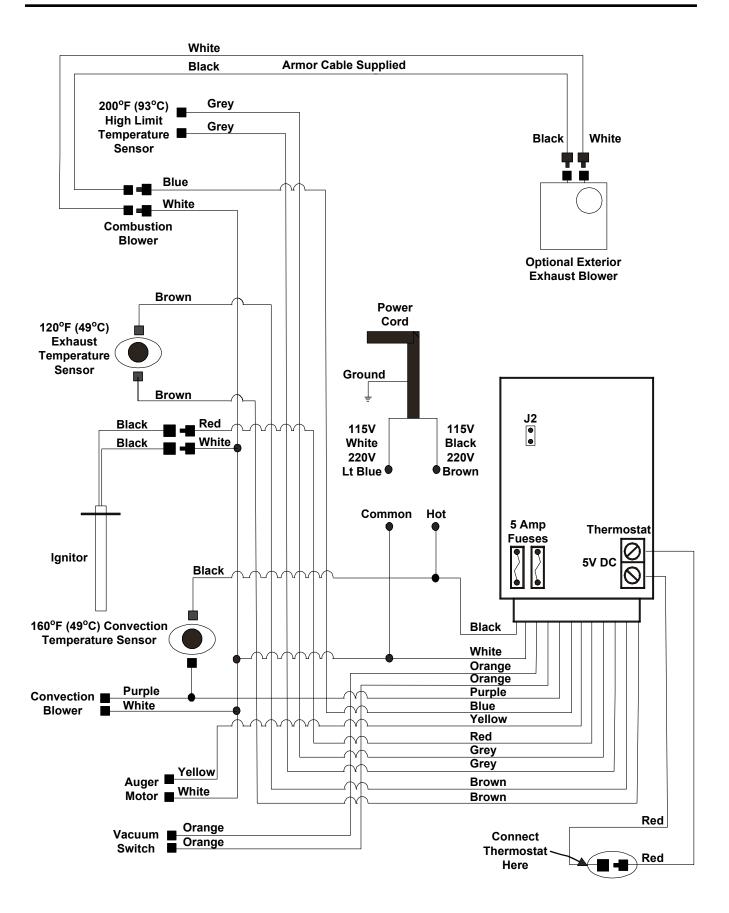
- **a)** If the stove goes out and leaves fresh unburned pellets or cigarette-like ashes in the burn pot liner, the fire is going out before the stove shuts off.
- ✓ Check to see that the slider / damper is in the correct position.
- ✓ Turn the heat level up slightly (poor quality pellets will require slightly higher settings).
- ✓ Set the auger trim till the #1 and #5 lights are illuminated.
- **b)** If the stove goes out and there are partially burned pellets left in the burn pot liner, the stove has shut down due to a lack of air, exhaust temperature, or power failure.
- ✓ Adjust the slider / damper.
- ✓ Check to see if the stove needs a more complete cleaning.
- √Turn the heat level up slightly (poor quality pellets will require slightly higher settings).
- ✓ Did the power go out?
- ✓ Contact your local dealer for service.

### Fuses:

F1 is the fuse to the inside of the circuit board controls. If F1 has blown there may have been an input power overload or a short in the convection fan.

F2 fuse closest fuse to the outside edge of the circuit board controls. If fuse F2 has blown then there was a electrical overload problem with one of the following parts: ignitor, auger motor, high limit switch, or exhaust blower.

# WIRING DIAGRAM



# PARTS LIST

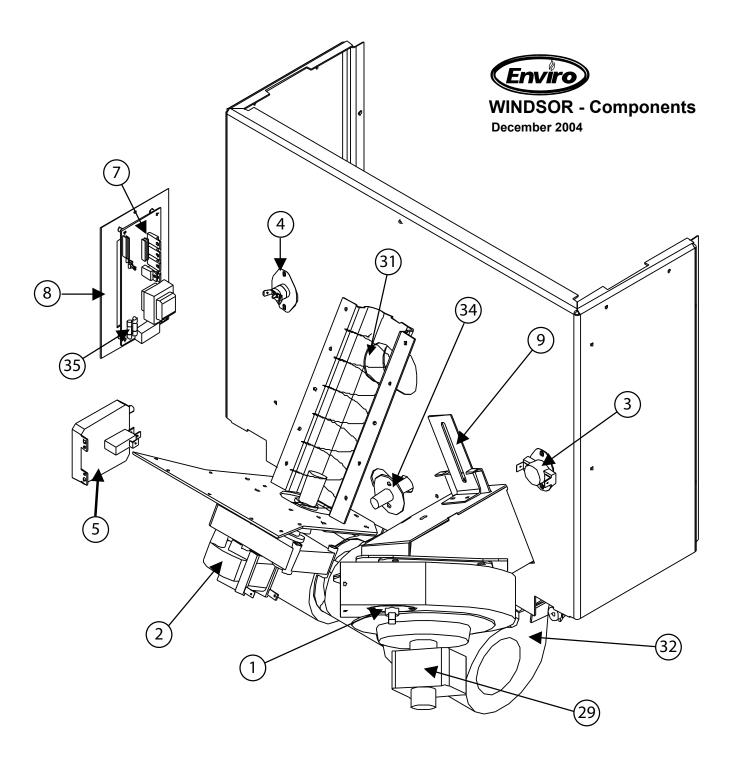
Reference Number	Description	Part Number
1	120 °F (49 °C) Ceramic Fan Temperature Sensor	EC-001
	Domestic Power Cord - 115V	EC-042
2	Auger Motor - 115V	EF-001
3	Fan Temp Sensor 160 °F (71 °C)	EF-013
4	High Limit Temp Sensor 200 °F (93 °C) Manual Reset	EF-016
5	Vacuum Switch - 115V	EF-017
	Silicone Hose	EF-018
	Aluminum Hose Barb	EF-019
6	Ignition Burn Pot	EF-021
	External Exhaust Back	EF5-143
	External Exhaust Box	EF5-144
	External Exhaust Bottom	EF5-145
	45° Exhaust Adaptor	EF5-146
	Exhaust Starter Tube 3" x 21/2" Long	EF5-147
	External Exhaust Kit (3" pipe)	20-070
	Windsor Owner's Manual - Domestic	50-038
	60° Exterior Exhaust Adaptor	50-096
	Door Screen	50-177
7	Circuit Board - 115V	50-178
8	Circuit Board Decal	50-179
9	Slider Damper with bolt	50-180
10	Heat Exchanger Rod	50-181
11	Cast Brick Panel - Center	50-182
12	Cast Brick Panel - Left	50-183
13	Cast Brick Panel - Right	50-184
14	Brick Panel Retainers (set of 2)	50-185
15	Inner Door Complete with Glass & Tape	50-186
16	Glass With Tape	50-187
	Inner Door Only - Painted	50-188
17	Inner Door Handle	50-189
18	Door Hinge Bracket	50-190
19	Ash Pan With Painted Knob	50-191
20	Hopper Lid	50-193
21	Back grill	50-194
22	Access Panel - Left	50-195
23	Access Panel - Right	50-196
24	Rear Casting Mounts - Right & Left	50-197
25	Bottom Casting Mounts - Right & Left	50-198
26	Front Casting Mounts - Right & Left	50-199

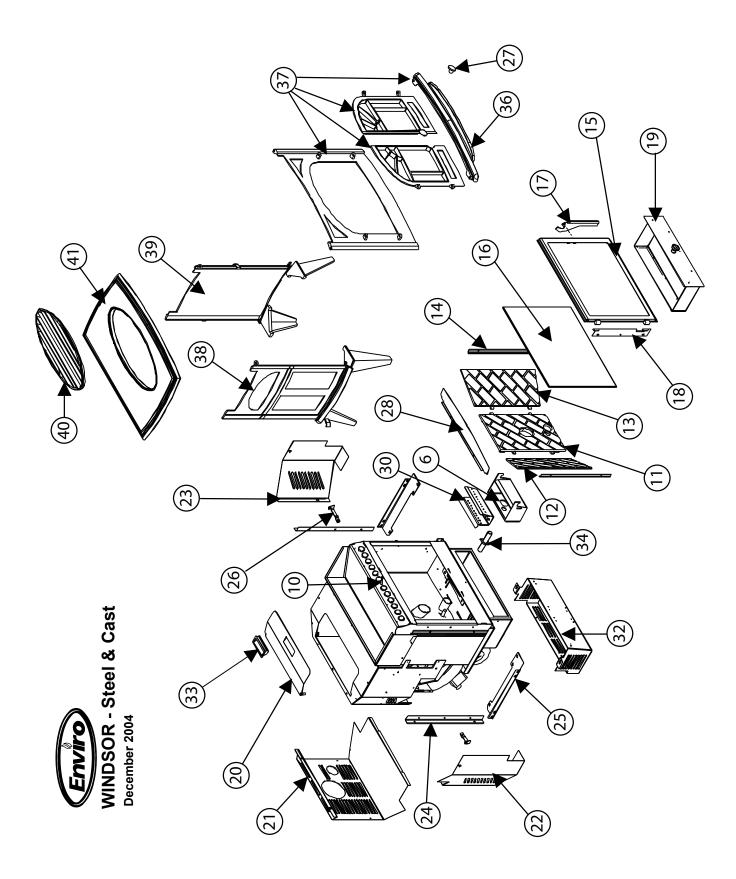
# PARTS LIST

Reference Number	Description	Part Number
27	Door Knob - Brushed Nickel	50-262
	Circuit Board Stand Offs	50-331
28	Air Deflector	50-363
	Hose Barb Shield	50-472
29	Combustion/ Exhaust Blower - 115V	50-473
30	Stainless Steel Burn Pot Liner - Standard	50-474
30	Stainless Steel Burn Pot Liner - High Ash	50-587
31	Shafted Auger With Paddles - 115 V	50-504
32	Convection Blower - 115 V	50-514
33	Flush Handle for Hopper Lid	50-523
	Self Adhesive Vinyl Spacers (set of 4)	50-607
	Control Panel & Decal	50-612
34	400 Watt Ignitor - 115 V	50-619
	Dual bulb door gasket - 10 ft (3.05m)	50-634
	Auger Motor Mount	50-687
	Auger Plate with bushing	50-688
	Auger Mounting Hardware	50-689
	Hinge Pin - Silver	50-750
	Oval Ceramic Gasket	50-766
35	Circuit Board 5 Amp Fuses - 115V (Pair)	50-833
	Door Bolt, Hardened Bushing & Nut	50-995
36	Cast Ash Shelf - Painted	50-192
36	Cast Ash Shelf - Antique White	50-209
36	Cast Ash Shelf - Diamond Black	50-210
36	Cast Ash Shelf - Inferno Red	50-211
36	Cast Ash Shelf - Pearl Grey	50-212
36	Cast Ash Shelf - Wedgewood Blue	50-213
36	Cast Ash Shelf - Westport Green	50-214
36	Cast Ash Shelf - Antique Chestnut	50-866
37	Cast Front Complete (Doors & Ash Shelf) - Painted	50-202
37	Cast Front Complete (Doors & Ash Shelf) - Antique White	50-227
37	Cast Front Complete (Doors & Ash Shelf) - Diamond Black	50-228
37	Cast Front Complete (Doors & Ash Shelf) - Inferno Red	50-229
37	Cast Front Complete (Doors & Ash Shelf) - Pearl Grey	50-230
37	Cast Front Complete (Doors & Ash Shelf) - Wedgewood Blue	50-231
37	Cast Front Complete (Doors & Ash Shelf) - Westport Green	50-232
37	Cast Front Complete (Doors & Ash Shelf) - Antique Chestnut	50-861
38	Cast Side Left - Painted	50-203
38	Cast Side Left - Antique White	50-233

# PARTS LIST

Reference Number	Description	Part Number
38	Cast Side Left - Diamond Black	50-234
38	Cast Side Left - Inferno Red	50-235
38	Cast Side Left - Pearl Grey	50-236
38	Cast Side Left - Wedgewood Blue	50-237
38	Cast Side Left - Westport Green	50-238
38	Cast Side Left - Antique Chestnut	50-862
39	Cast Side Right - Painted	50-204
39	Cast Side Right - Antique White	50-239
39	Cast Side Right - Diamond Black	50-240
39	Cast Side Right - Inferno Red	50-241
39	Cast Side Right - Pearl Grey	50-242
39	Cast Side Right - Wedgewood Blue	50-243
39	Cast Side Right - Westport Green	50-244
39	Cast Side Right - Antique Chestnut	50-863
40	Cast Grate - Painted	50-205
40	Cast Grate - Antique White	50-245
40	Cast Grate - Diamond Black	50-246
40	Cast Grate - Inferno Red	50-247
40	Cast Grate - Pearl Grey	50-248
40	Cast Grate - Wedgewood Blue	50-249
40	Cast Grate - Westport Green	50-250
40	Cast Grate - Antique Chestnut	50-864
41	Cast Top Only (No Grate) - Painted	50-206
41	Cast Top Only (No Grate) - Antique White	50-251
41	Cast Top Only (No Grate) - Diamond Black	50-252
41	Cast Top Only (No Grate) - Inferno Red	50-253
41	Cast Top Only (No Grate) - Pearl Grey	50-254
41	Cast Top Only (No Grate) - Wedgewood Blue	50-256
41	Cast Top Only (No Grate) - Westport Green	50-257
41	Cast Top Only (No Grate) - Antique Chestnut	50-865
	Complete Cast Body - Painted	50-576
	Complete Cast Body - Antique White	50-577
	Complete Cast Body - Diamond Black	50-578
	Complete Cast Body - Inferno Red	50-579
	Complete Cast Body - Pearl Grey	50-580
	Complete Cast Body - Wedgewood Blue	50-581
	Complete Cast Body - Westport Green	50-582
	Complete Cast Body - Antique Chestnut	50-867





### WARRANTY

Sherwood Industries Ltd. gives a five year limited warranty on all steel manufactured parts. A one-year warranty is provided on all electrical components. The above limited warranties are extended only to the original purchaser.

There is no warranty on the following parts:

- Glass window
- Fiberglass rope gaskets
- refractory material
- burn pot liner
- paint
- enamel finish or gold plating where it applies

\*\*NOTE: The paint on the brick firebox lining may peel. This is due to the extreme conditions applied to the paint and is in no way covered under warranty.

# WHEN FILING A WARRANTY CLAIM PLEASE COMPLETE THE FOLLOWING INFORMATION ON AN OFFICIAL WARRANTY CLAIM FORM:

### TO THE DEALER:

- Name and address of dealer,
- Date of purchase
- Name, address and telephone number of purchaser
- Name, address and telephone number of installer
- Date of installation, and
- Serial number of the appliance

### Ensure that you specify the nature of the complaint, defect, periodical malfunction, etc.

### TO THE DISTRIBUTOR:

- Sign and verify that work and information are correct.
- Description and part # of any parts replaced.

The limited warranty covers defects in materials and workmanship as long as the products has been installed according to the manual's instruction. If the product is damaged or broken as a result of mishandling or misuse, the warranty does not apply. Removal and re-installation costs are not covered under this warranty.

It is the manufacturer's option whether to repair or replace the appliance. The shipping cost to and from the factory is to be paid by the consumer. All warranties by the manufacturer are set forth herein and no claim shall be made against the manufacturer on any oral warranty or representation.

The manufacturer assumes no responsibility for damage caused by household power fluctuations or power surges.

**Under Warranty** 

### For the do-it-yourself Individual

The consumer should be aware that the pellet appliance needs setting using tools that he/she might not have. It is recommended that you have a qualified installer install your pellet appliance

Sherwood Industries Ltd. reserves the right to make changes without any notice.

# INSTALLATION DATA SHEET

The following information must be recorded by the installer for warranty purposes and future reference.

NAME OF OWNER:	NAME OF DEALER:
·	
ADDRESS:	ADDRESS:
PHONE:	PHONE:
MODEL:	NAME OF INSTALLER:
SERIAL NUMBER:	
DATE OF PURCHASE: (dd/mm/yyyy)	
DATE OF INSTALLATION:(dd/mm/yyyy)	ADDRESS:
MAGNEHELIC AT INSTALL:	
INSTALLER'S SIGNATURE:	
	PHONE:

MANUFACTURED BY:
SHERWOOD INDUSTRIES LTD.
6782 OLDFIELD RD. SAANICHTON, BC, CANADA V8M 2A3
www.envirofire.biz
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